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What is claimed is:

1. A method of assigning identifying indicia to objects in multidimensional space

comprising the steps of:

sorting objects initially according to a first dimension of their location in multidimensional space;

grouping subsets of objects according to ambiguities in the objects; and

ordering ambiguous objects in subsets according to other dimensions of the multidimensional space.

2. The method according to claim 1 wherein said grouping step includes the step of:

determining ambiguities among coordinate values of their location in the multidimensional space according to whether separation of objects in a dimension is less than a predetermined threshold value.

3. The method according to claim 2 wherein said determining step includes the step of

ascertaining a predetermined threshold value based on known errors of position measurements.

1 8. A method of sorting indicia corresponding to objects moving through a
2 multidimensional space comprising the steps of:
3 scanning the multidimensional space to detect positions of objects therein;
4 assigning unique indicia to each detected object;
5 sorting assigned indicia along one coordinate axis of the multidimensional space;
6 grouping into subsets any indicia exhibiting an ambiguity along the coordinate axis;
7 and
8 ordering indicia in subsets according to other coordinate axes of the
9 multidimensional space.

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